CLAIMS

What is claimed is:

1. An organic electroluminescent device comprising:

a transparent substrate;

a semi-transparent layer formed on the transparent substrate;

a first anode layer formed on the semi-transparent layer as a predetermined pattern;

a cathode layer formed of a metallic total reflection layer on the first anode layer; and

an organic layer formed between the first anode layer and the cathode layer, which

includes at least an emitting layer,

wherein an optical distance between a top surface of the semi-transparent layer and a bottom of the cathode layer is determined to be a least integer multiple of half the peak wavelengths of light of a predetermined set of colors.

- 2. The organic electroluminescent device of claim 1, wherein the optical distance between the top surface of the semi-transparent layer and the bottom of the cathode layer is a sum of products of refractive indices and thicknesses of the respective first anode layer and the organic layer.
- 3. The organic electroluminescent device of claim 1, further comprising a transparent spacer layer between the semi-transparent layer and the first anode layer.
- 4. The organic electroluminescent device of claim 3, wherein the optical distance between the top surface of the semi-transparent layer and the bottom of the cathode layer is a sum of products of refractive indices and thicknesses of the respective transparent spacer layer, the first anode layer, and the organic layer.
- 5. The organic electroluminescent device of claim 1, further comprising a second anode layer between the transparent substrate and the semi-transparent layer.

6. The organic electroluminescent device of claim 5, wherein the optical distance between the top surface of the semi-transparent layer and the bottom of the cathode layer is a sum of products of refractive indices and thicknesses of the respective first anode layer and the organic layer.

- 7. The organic electroluminescent device of claim 1, further comprising a metal oxide layer deposited on the top surface of the transparent substrate.
- 8. The organic electroluminescent device of claim 3, further comprising a metal oxide layer deposited on the top surface of the transparent substrate.
- 9. The organic electroluminescent device of claim 5, further comprising a metal oxide layer deposited on the top surface of the transparent substrate.
- 10. The organic electroluminescent device of claim 7, wherein the metal oxide layer is one selected from the group consisting of a SiO_2 layer, a TiO_2 layer, a Y_2O_3 layer, and a Nb_2O_5 layer.
- 11. The organic electroluminescent device of claim 8, wherein the metal oxide layer is one selected from the group consisting of a SiO_2 layer, a TiO_2 layer, a Y_2O_3 layer, and a Nb_2O_5 layer.
- 12. The organic electroluminescent device of claim 9, wherein the metal oxide layer is one selected from the group consisting of a SiO_2 layer, a TiO_2 layer, a Y_2O_3 layer, and a Nb_2O_5 layer.
- 13. The organic electroluminescent device of claim 1, wherein the transparent substrate is a glass substrate.
- 14. The organic electroluminescent device of claim 1, wherein the semi-transparent layer is a thin metal layer.

15. The organic electroluminescent device of claim 14, wherein the thin metal layer is formed of one of silver and aluminum.

- 16. The organic electroluminescent device of claim 14, wherein the thin metal layer is formed of one of a silver-copper-gold alloy and a silver-palladium-copper alloy.
- 17. The organic electroluminescent device of claim 1, wherein the first anode layer and the organic layer are formed as a stripe pattern, and the cathode layer is formed as a stripe pattern perpendicular to the stripe pattern of the first anode layer and the organic layer.
- 18. The organic electroluminescent device of claim 1, wherein the first anode layer is formed as a stripe pattern, and the organic layer and the cathode layer are formed as a stripe pattern perpendicular to the stripe pattern of the first anode layer.
- 19. The organic electroluminescent device of claim 1, wherein the semi-transparent layer, the first anode layer, and the organic layer are formed as a stripe pattern, and the cathode layer is formed as a stripe pattern perpendicular to the stripe pattern of the semi-transparent layer, the first anode layer, and the organic layer.
- 20. The organic electroluminescent device of claim 1, wherein the semi-transparent layer and the first anode layer are formed as a stripe pattern, and the organic layer and the cathode layer are formed as a stripe pattern perpendicular to the stripe pattern of the semi-transparent layer and the first anode layer.
- 21. The organic electroluminescent device of claim 3, wherein the semi-transparent layer, the transparent spacer layer, the first anode layer, and the organic layer are formed as a stripe pattern, and the cathode layer is formed as a stripe pattern perpendicular to the stripe pattern of the semi-transparent layer, the transparent spacer layer, the first anode layer, and the organic layer.

22. The organic electroluminescent device of claim 3, wherein the semi-transparent layer, the transparent spacer layer, and the first anode layer are formed as a stripe pattern, and the organic layer and the cathode layer are formed as a stripe pattern perpendicular to the stripe pattern of the semi-transparent layer, the transparent spacer layer, and the first anode layer.

- 23. The organic electroluminescent device of claim 5, wherein the second anode layer, the semi-transparent layer, the first anode layer, and the organic layer are formed as a stripe pattern, and the cathode layer is formed as a stripe pattern perpendicular to the stripe pattern of the second anode layer, the semi-transparent layer, the first anode layer, and the organic layer.
- 24. The organic electroluminescent device of claim 5, wherein the second anode layer, the semi-transparent layer, and the first anode layer are formed as a stripe pattern, and the organic layer and the cathode layer are formed as a stripe pattern perpendicular to the stripe pattern of the second anode layer, the semi-transparent layer, and the first anode layer.